

ADDITIONAL GENERAL SIGNAL NOTES

8. INSTALL TEMPORARY SPAN WIRE TO CONNECT PROPOSED MAST ARMS. ROUTE THE SIGNAL CABLE AERIALLY THROUGH THE PROPOSED SPAN WIRE TO ACTIVATE SIGNAL HEADS *5-*8.

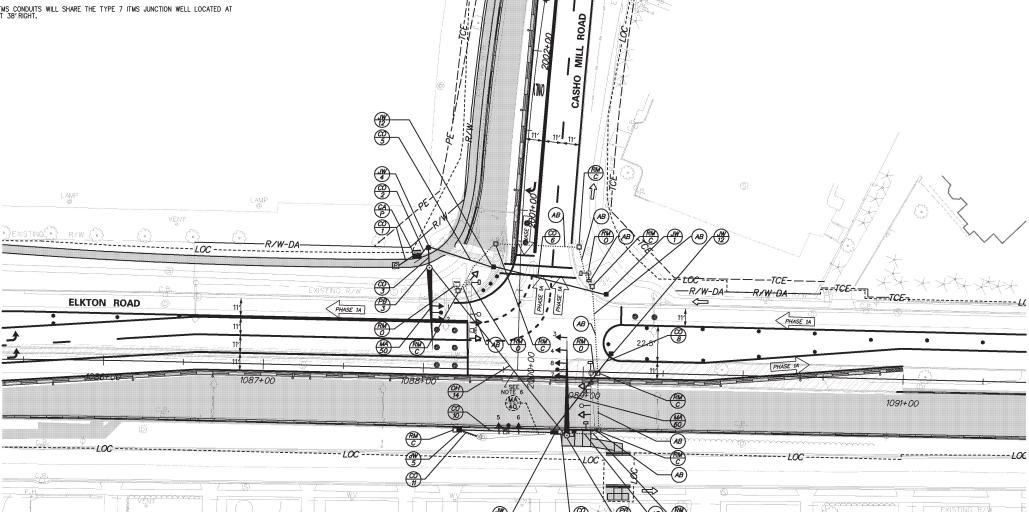
9. THE LOAD BEARING JUNCTION WELL IS A SPECIAL PROVISION JUNCTION WELL AND WILL BE FABRICATED BASED ON THE DETAIL AND SPECIAL PROVISION SPECIFICATION. THE JUNCTION WELL WILL BE UNDER TRAFFIC AT THIS LOCATION. AT THE END OF ROAD CONSTRUCTION THIS LOCATION WILL BE PART OF CURBED MEDIAN.

- 10. THE PROPOSED SIGNAL POLES, MAST ARM, AND CONTROLLER CABINET SHALL BE CONSTRUCTED AT THE BEGINNING OF THIS PHASE.
- 11. CONDUIT RUN *5 AND *8 SHALL BE INSTALLED DURING THIS PHASE.

12. WHEN A PEDESTRIAN CROSSING IS PROHIBITED FOR ANY MOVEMENT, THE CORRESPONDING PEDESTRIAN SIGNAL HEAD SHALL BE BAGGED.

- 13. REMOVE THE VIDEO DETECTION SYSTEM FROM THE MAST ARMS.
- 14. INSTALL THE MAIN PUCK DETECTION UNIT ON THE SIGNAL POLE NEAREST THE SIGNAL CABINET.





	CONDUIT RUN SCHEDULE					
CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/ WIRE		
1	1	2"	10'	(1)2/#8 U.F.W/GROUND		
2	3	2. 5"	5′	(3)16/#14, (3)4/#18, (1)9/#14		
3	1	2. 5"	9'	(3)16/#14, (3)4/#18, (1)9/#14		
5	1	2. 5"	39'	EMPTY		
6	1	2. 5"	70'	EMPTY		
8	1	2. 5"	60'	EMPTY		
9	1	2. 5"	2'	(1)16/#14,(1) 9/#14,(1)4/#18		
10	1	2. 5"	62'	(1)16/#14, (1)4/#18		
11	1	2. 5"	12'	(1)16/#14, (1)4/#18		
OH14			133'	(2)16/#14, (1)9/#14, (2) 4/#18		

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

	POLE SCHEDULE						
	NO.		STATION	OFFSET			
Ì	1	50' MAST ARM POLE W/ TYPE 3 BASE	1088+02	63′ L			
	2	60' MAST ARM POLE W/ TYPE 3 BASE	1088+91	40′ R			
][*3	40' MAST ARM POLE W/ TYPE 3 BASE	1088+36	42′ R			

SEE NOTE 15

		NO.	STATION	0FFSET
		J1	1088+01 @ SR 2	75′ L
_				
		J3	1088+42 @ SR 2	64' L
₇		J4	1089+13 @ SR 2	49′ L
T	2	J5	1089+17 @ SR 2	12' L
	1	J6	1088+83 @ SR 2	38′ R
?		<i>J7</i>	1088+22 @ SR 2	39′ R
?	2	CA	1087+95 @ SR 2	71′ L

JUNCTION WELL AND CABINET SCHEDULE

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

DELAWARE AVENUE

PHASE 1A

REMOVE BY CONTRACTOR REMOVE BY OTHERS

PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)

EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)

PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)

EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)

PROPOSED CONDUIT RUN IDENTIFIER EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)

PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)

EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)

PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)

EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)

PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)

EXISTING CABINET IDENTIFIER (TYPE OF CABINET)

RIGHT-OF-WAY OR PROPERTY LINE

PROPOSED SPAN INSULATOR EXISTING SPAN INSULATOR

PROPOSED SPAN WIRE

EXISTING SPAN WIRE

SERVICE PEDESTAL

PUCK DETECTION SYSTEM

PHASING NOTES

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SIGNAL HEAD DIAGRAM \odot

	20022052			
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2,7,8	3,4		5,6	
8	(a)		Θ	
$\overline{}$				

LEGEND (RW)

AB

 $\left(\frac{\widehat{JW}}{X}\right)$

SIGNAL PHASING

PROPOSED SIGNAL CABINET
EXISTING SIGNAL CABINET
PROPOSED SIGNAL POLE BASE
FXISTING SIGNAL POLE RASE

PROPOSED PEDESTRIAN POLE BASE

EXISTING PEDESTRIAN POLE BASE EXISTING UTILITY POLE

PROPOSED JUNCTION WELL

EXISTING SIGNAL HEAD

PROPOSED PEDESTRIAN SIGNAL HEAD PROPOSED PEDESTRIAN PUSHBUTTON

PROPOSED VIDEO DETECTION

EXISTING VIDEO DETECTION PROPOSED MICROWAVE DETECTION

EXISTING MICROWAVE DETECTION OVERHEAD SIGNING

PROPOSED OPTICOM RECEIVER

PROPOSED LOOP DETECTOR
(TYPE 1 OR 2)

GENERAL SIGNAL NOTES

P

1. INSTALL TEMPORARY MAGNETIC IN STREET (PUCK) DETECTION SYSTEM IN EACH LANE AT A DISTANCE OF 8 FEET AND 20 FEET FROM THE STOP BAR. 2. ALL SIGNAL POLES WILL BE 21 FEET, EXCEPT WHERE SHOWN.

3. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC DOVER, DELAWARE.

4. POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITI SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING SCONDUIT IS TO BE ABANDANED.

AL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.

6. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPOPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

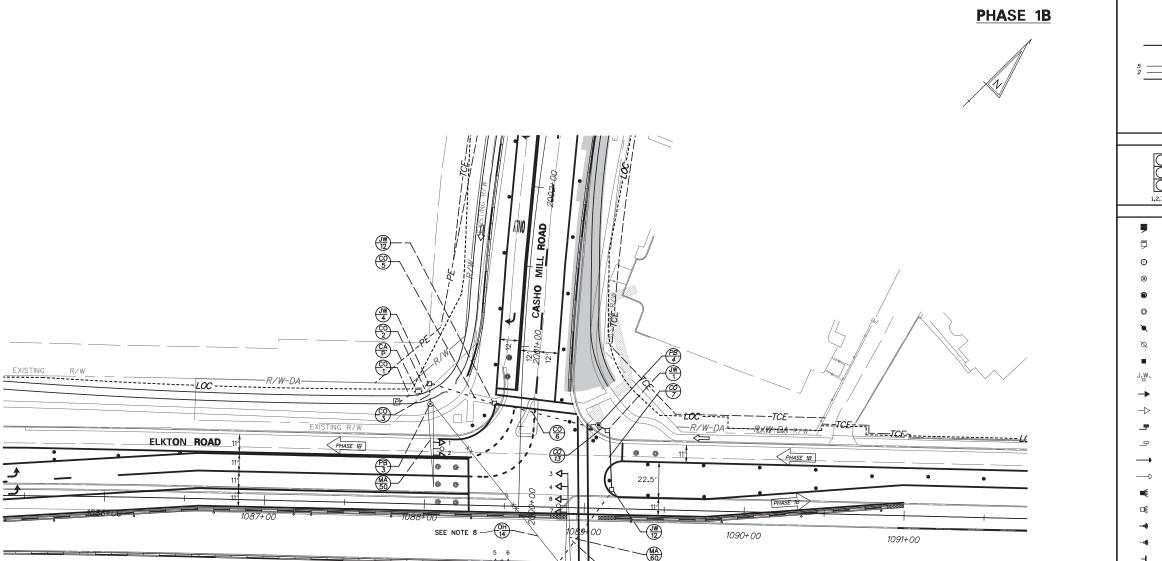
7. ALL SIGNAL HEADS SHALL BE CONTROLLED BY THE PROPOSED CONTROLLER CABINET DURING THIS PHASE. THE NEW SIGNAL LAYOUT SHALL BE ACTIVATED BEFORE THE REMOVAL OF THE EXISTING CONTROLLER CABINET AND SIGNAL SETUP.

APPROVED TRAFFIC ENGINEER_ RECOMMENDED_ Mix Wahed __DATE:____1/20/10_ RECOMMENDED _DATE:_ RECOMMENDED. DATE: DATE: ADDENDUM / REVISIONS **ELKTON ROAD,** ☐ REVISED SHEET - MAW 12/3/2010 SCALE **DELAWARE** CASHO MILL ROAD TO 2 REVISED SHEET - MAW 05/4/2011 **DEPARTMENT OF TRANSPORTATION**

APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER N 639 24-044-01 HECKED BY: MAW

SIGNALIZATION PLAN ELKTON RD @ CASHO MILL RD

DATE:



	CONDUIT RUN SCHEDULE					
CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/ WIRE		
* 1	1	2"	10'	(1)2/#8 U.F.W/GROUND	٦	
*2	3 1	2.5"	5′	(3)16/#14, (3)4/#18, (2)9/#14	\neg	
*3	1	2.5"	9'	(3)16/#14, (3)4/#18, (1)9/#14	\neg	
					٦	
*5	1	2.5"	39'	(1)9/#14 1	\neg	
*6	1	2.5"	70'	(1)9/14 1	\neg	
7	1	2.5"	35′	EMPTY	\neg	
*8	1	2.5"	60'	EMPTY	\neg	
*9	1	2.5"	2'	(1)16/#14,(1) 9/#14,(1)4/#18	٦	
*10	1	2.5"	62'	(1)16/#14, (1)4/#18	╗	
*11	1	2.5"	12'	(1)16/#14, (1)4/#18	\neg	
					٦	
13	1	2.5"	5′	(1)9/#14 1	\neg	
*0H14			133'	(2)16/#14 (1)9/#14 (2) 4/#18	\neg	

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

	POLE SCHEDULE					
	NO.	TYPE	STATION	OFFSET		
	* 1	50' MAST ARM POLE W/ TYPE 3 BASE	1088+02	63′ L		
	*2	60' MAST ARM POLE W/ TYPE 3 BASE	1088+91	40′ R		
2	*3	40' MAST ARM POLE W/ TYPE 3 BASE	1088+36	42′ R		
	5	PEDESTRIAN POLE W/ TYPE 4 BASE	1089+08	52′ L		

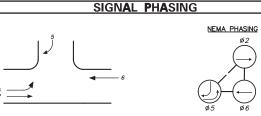
EXISTING	or	CONSTRUCTED	DUR I NG	PREV 10US	PHASE

			JUNCTION WELL AND C	ABINET SCHEDULE
		NO.	STATION	OFFSET
		*J1	1088+01 Ç SR 2	75′ L
<u> </u>				
= ′		*J3	1088+42 Ç SR 2	64′ L
L		*J4	1089+13 Ç SR 2	49′ L
R	2	*J5	1089+17 © SR 2	12' L
R	1	*J6	1088+83 © SR 2	38′ R
		*J7	1088+22 Ç SR 2	38′ R
L	2	*CA	1087+95 Ç SR 2	71′ L

EXISTING R/W

-------*LOC* ------

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE



PHASING NOTES

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SIGNAL HEAD DIAGRAM

000	<u>@</u> @	0
1,2,7,8	3,4	5,6

LEGEND

(RM) C

(RM)

AB

(X)

©

REMOVE BY CONTRACTOR

PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE) EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)

PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)

EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)

PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)

EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)

PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)

EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)

PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)

EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)

PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)

EXISTING CABINET IDENTIFIER (TYPE OF CABINET)

RIGHT-OF-WAY OR PROPERTY LINE

PROPOSED SPAN INSULATOR

EXISTING SPAN INSULATOR

PROPOSED SPAN WIRE

REMOVE BY OTHERS

- PROPOSED SIGNAL CABINET

 EXISTING SIGNAL CABINET
- PROPOSED SIGNAL POLE BASE

 EXISTING SIGNAL POLE BASE
- PROPOSED PEDESTRIAN POLE BASE
- EXISTING PEDESTRIAN POLE BASE
- ▶ PROPOSED WOOD POLE
 ▷ EXISTING UTILITY POLE
- PROPOSED JUNCTION WELL
- J.W. EXISTING JUNCTION WELL
- → PROPOSED SIGNAL HEAD
- → EXISTING SIGNAL HEAD
- .
- PROPOSED PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN SIGNAL HEA
- PROPOSED PEDESTRIAN PUSHBUTTON

 EXISTING PEDESTRIAN PUSHBUTTON
- PROPOSED VIDEO DETECTION
- □ EXISTING VIDEO DETECTION
- PROPOSED MICROWAVE DETECTION
- EXISTING MICROWAVE DETECTION
- OVERHEAD SIGNING

 PROPOSED OPTICOM RECEIVER
- EXISTING OPTICOM RECEIVER
- PROPOSED MAST A
- PROPOSED LUMINAIRE
- EXISTING LUMINAIRE
- P SERVICE PEDESTAL● PUCK DETECTION SYSTEM
- PROPOSED LOOP DETECTOR
 (TYPE 1 OR 2)

 EXEMPLE 1 OR 2)

 CTYPE 1 OR 2)

GENERAL SIGNAL NOTES

- ALL SIGNAL POLES WILL BE 21FEET, EXCEPT WHERE SHOWN.
 ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC DOVER, DELAWARE.
- POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SCHOOL 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER, EXISTING CONDUIT IS TO BE ABANDONED.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED, ALL GRC SHALL BE THREADE OCEPTABLE.

 OCEPTABLE.
- 5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
- 6. INSTALL THE PEDESTRIAN POLE AT STA. 1089+08L AT THE BEGINNING OF THIS PHASE.
- 7. WHEN A PEDESTRIAN CROSSING IS PROHIBITED FOR ANY MOVEMENT, THE CORRESPONDING PEDESTRIAN SIGNAL HEAD SHALL BE BACGED.
- 8. REMOVE THE SPAN WIRE AT THE END OF THIS PHASE.

APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER APPROVED TRAFFIC ENGINEER_ RECOMMENDED_ Mii Wahed _DATE:____1/20/10_ RECOMMENDED _DATE:_ RECOMMENDED. DATE: DATE: _DATE:. ADDENDUM / REVISIONS CONTRACT SHEET NO. PERMIT NO. **N** 639 ELKTON ROAD, SCALE 1 REVISED SHEET - MAW 12/3/2010 DELAWARE SIGNALIZATION PLAN 24-044-01 CASHO MILL ROAD TO 2 REVISED SHEET - MAW 05/4/2011 DESIGNED BY: JDS **DEPARTMENT OF TRANSPORTATION** COUNTY ELKTON RD @ CASHO MILL RD **DELAWARE AVENUE** NEW CASTLE CHECKED BY: MAW



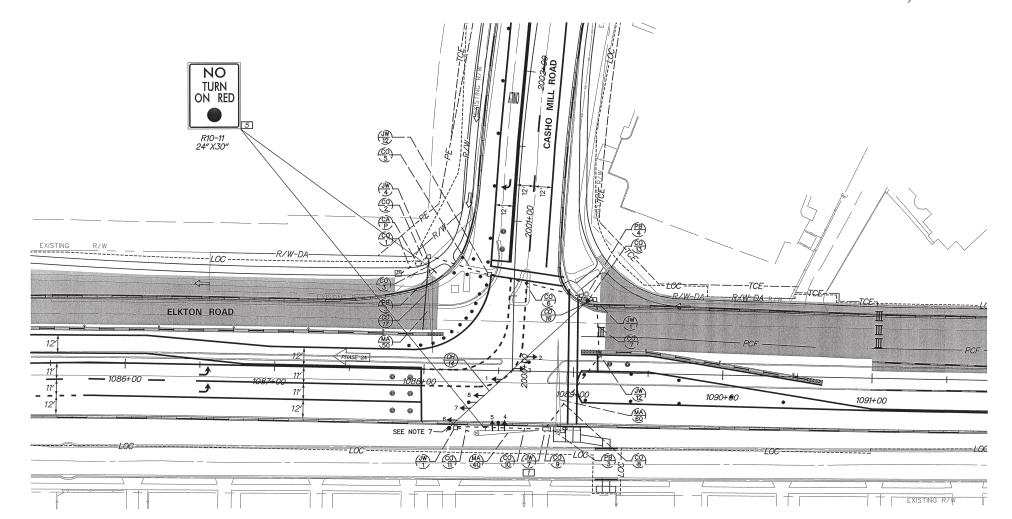
7. INSTALL TEMPORARY SPAN WIRE TO CONNECT TEMPORARY WOOD POLES RELOCATE THE ELKTON ROAD SIGNAL HEADS ON THE SPAN WIRE PRIOR TO START OF PHASE 2A ACTIVATE THE SIGNAL THROUGH TEMPORARY CONDUIT *15.

8. INSTALL THE PEDESTRIAN POLE WITH SIGNAL AT STA 1088+98, OFFSET 63'L DURING PHASE 2B WEEKEND WORK. BAG PEDESTRIAN SIGNAL HEAD UNTIL PHASE 2C.

9. THE CONDUIT RUN *17 WILL BE INSTALLED THROUGH OPEN TRENCH DURING THIS CONSTRUCTION PHASE. THE REMAINING PORTION OF CR*17 WILL BE INSTALLED DURING PHASE 2C.







	CONDUIT RUN SCHEDULE					
CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/ WIRE		
*1	1	2"	11'	(1)2/#8 U.F.W/GROUND		
*2	3 1	2.5"	5'	(3)16/#14, (2)9/#14, (3)4/#18 1		
*3	1	2.5"	9'	EMPTY		
*5	1	2.5"	39'	(3)16/#14,(2) 9/#14,(3)4/#18 1		
*6	1	2.5"	70'	(3)16/#14,(2) 9/#14,(3)4/#18 1		
*7	1	2. 5"	35'	(1)16/#14,(1) 9/#14,(1)4/#18		
*8	1	2.5"	60'	(1)16/#14,(1) 9/#14,(1)4/#18		
*9	1	2.5"	14'	(1) 9/#14		
*10	1	2.5"	44'	(1)16/#14, (1)4/#18		
*11	1	2.5"	20'	(1)16/#14, (1)4/#18		
*13	1	2.5"	5'	(1)9/#14		
0H14			150′	(2)16/#14, (2)4/#18		
16	1	2.5"	5'	(2)16/#14, (2)4/#18		
17	1	2, 5"	47'	EMPTY 1		

	POLE SCHEDULE								
	NO.	TYPE	STATION	OFFSET					
	*1	50' MAST ARM POLE W/ TYPE 3 BASE	1088+02	63′ L					
	*2	60' MAST ARM POLE W/ TYPE 3 BASE	1088+91	40′ R					
2	*3	40' MAST ARM POLE W/ TYPE 3 BASE	1088+36	42′ R					
	*5	PEDESTRIAN POLE W/ TYPE 4 BASE	1089+08	52′ L					
	6	40' TEMPORARY WOOD POLE	1089+15	52′ L					
	7	40' TEMPORARY WOOD POLE	1088+23	38′ R					

			JUNCTION	WELL	AND	С	ABINET	SCH	EDULE
_		NO.	ST	AT ION				0FFS	ET
1		*J1	1088+0	01 @ SR	2			75′	L
1		*J3	1088+4	12 ¢ SR	2			64'	1
		*J4		3 @ SR				49'	L
	2	*J5	1089+1	7 @ SR	2			12'	L
	1	*J6	1088+8	33 @ SR	2			38'	R
	2	*J7	1088+2	22 @ SR	2			38′	R
	2	*CA	1087+9	95 C SR	2			71'	L

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE * EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

APPROVED TRAFFIC ENGINEER 11/2 DATE: 1/11/2

35 NEMA PHASING 5 PHASING NOTES PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. SIGNAL HEAD DIAGRAM 2,3,6,7 **LEGEND** (RM) C REMOVE BY CONTRACTOR PROPOSED SIGNAL CABINET REMOVE BY OTHERS PROPOSED SIGNAL POLE BASE AB ABANDON PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE) EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE) EXISTING PEDESTRIAN POLE BASE PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL) EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL) PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN) PROPOSED SIGNAL HEAD EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN) PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN) EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN) PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM) EXISTING PEDESTRIAN PUSHBUTTON EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM) PROPOSED CABINET IDENTIFIER (TYPE OF CABINET) EXISTING VIDEO DETECTION EXISTING CABINET IDENTIFIER (TYPE OF CABINET) PROPOSED MICROWAVE DETECTION PROPOSED SPAN WIRE OVERHEAD SIGNING PROPOSED OPTICOM RECEIVER RIGHT-OF-WAY OR PROPERTY LINE PROPOSED SPAN INSULATOR PROPOSED LUMINAIRE SERVICE PEDESTAL PUCK DETECTION SYSTEM PROPOSED LOOP DETECTOR (TYPE 1 OR 2) EXISTING LOOP DETECTOR

(TYPE 1 OR 2) GENERAL SIGNAL NOTES ALL SIGNAL POLES WILL BE 21 FEET, EXCEPT WHERE SHOWN. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC -DOVER, DELAWARE. POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECONDUIT IS TO BE ABANDONED. 4. ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE. 6. INSTALL 40 FEET TEMPORARY WOOD POLES AT STA 1089+15, OFFSET 52'L AND AT STA 1088+23, OFFSET 38'R.

SIGNAL PHASING

__DATE:____1/20/10_ DELAWARE DEPARTMENT OF TRANSPORTATION

l	RECOMMENDED	DA ⁻	TE:	RECOMMENDED		DAT	ΓΕ:	
•	1 REVISED SHEET - MAW 1: 2 REVISED SHEET - MAW 0: 5 REVISED SHEET - MAW 01	2/3/2010 5/4/2011	REVISIONS		0	SCAL 30	60	90

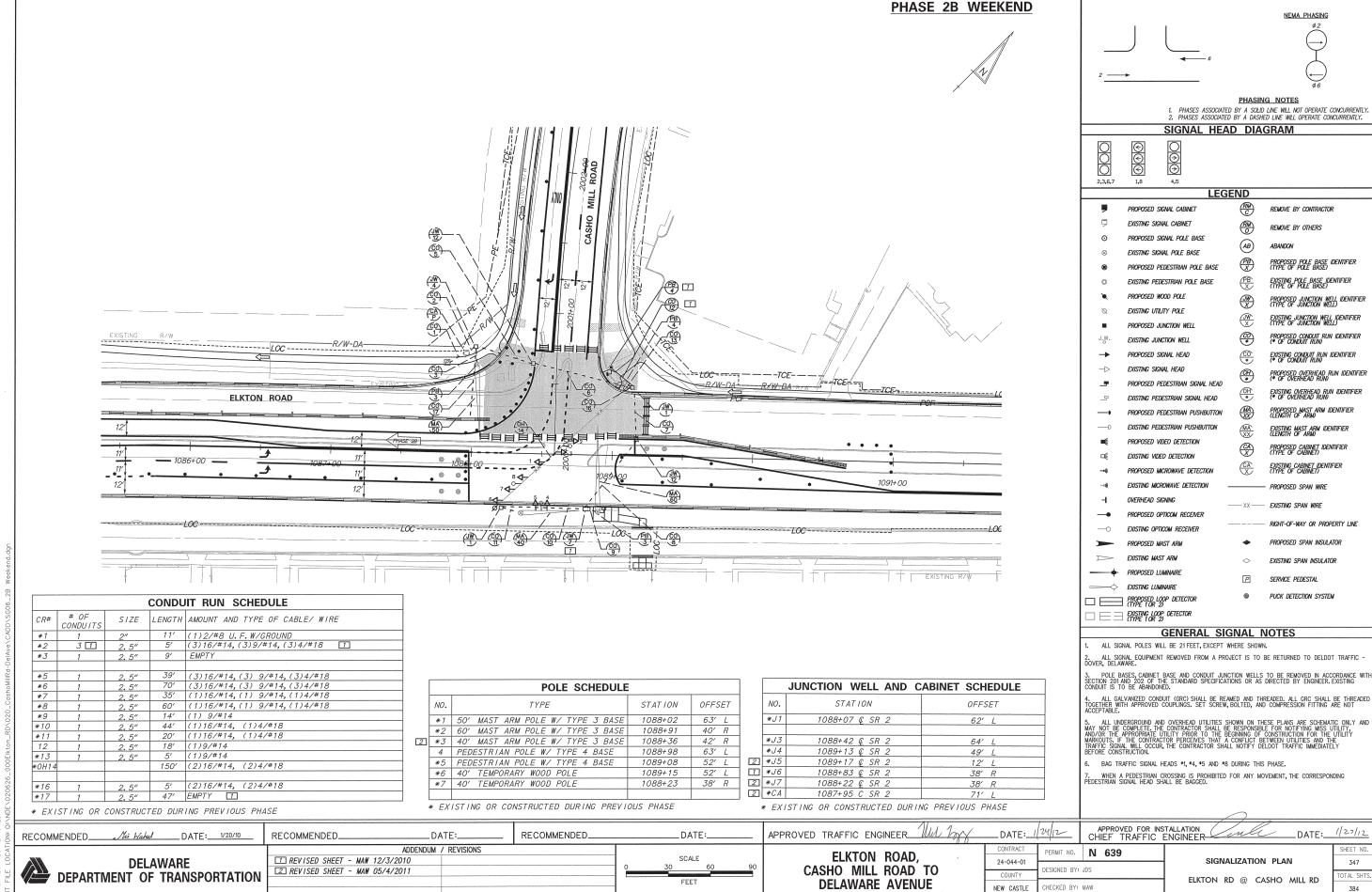
ELKTON ROAD, CASHO MILL ROAD TO **DELAWARE AVENUE**

_DATE:	11/12	APPROVED FOR INS	
CONTRACT	PERMIT NO.	N 639	
24-044-01	DESIGNED BY:	IDC	SI
COUNTY	DESIGNED BT.	JD2	ELKTO
NEW CASTLE	CHECKED BY:	MAW	LLKIO

SIGNALIZATION PLAN ELKTON RD @ CASHO MILL RD

_DATE: 1/18/12

346



SIGNAL PHASING

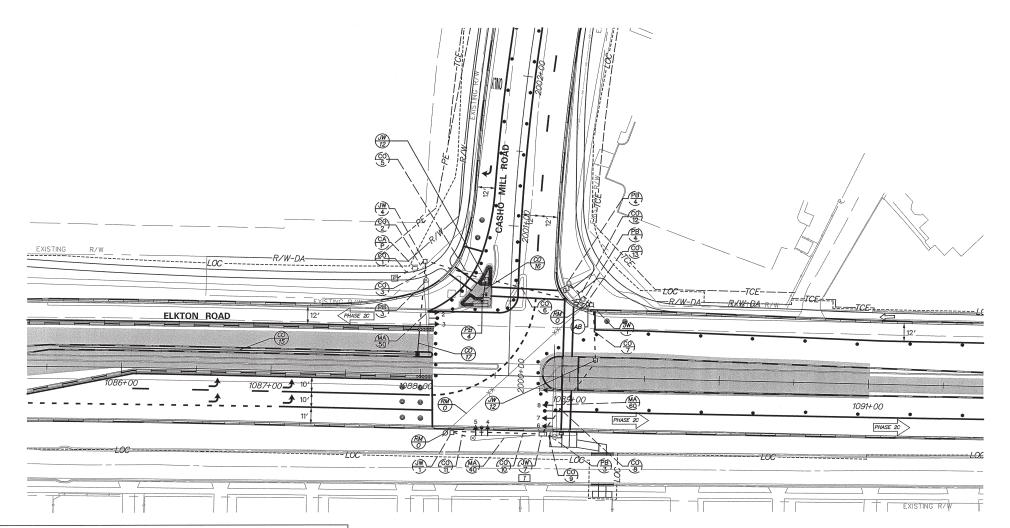
DATE PLOTTED: 12/15/2011
JMT FILE LOCATION: 0:\NDE\020626

9. REMOVE THE TEMPORARY STRAIN POLES AND THE SPAN WIRE (OH14) DURING THIS PHASE.

10. BAG TRAFFIC SIGNAL HEADS *4 AND *5 DURING THIS PHASE.







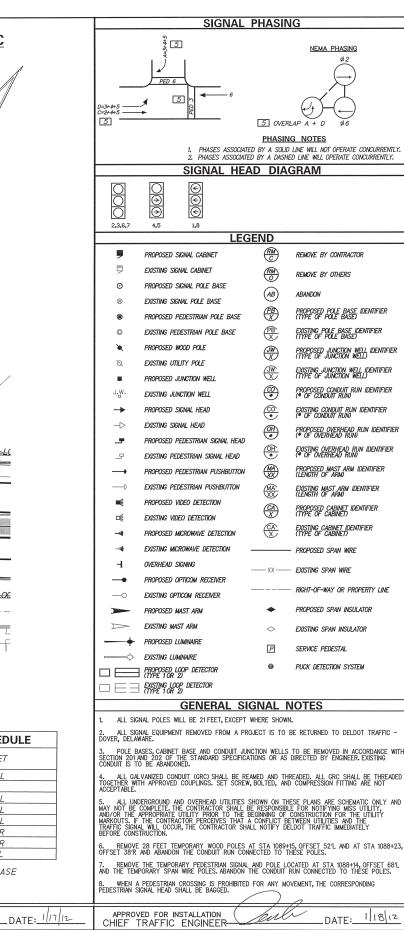
			CONDU	JIT RUN SCHEDULE
CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/ WIRE
*1	1	2"	11'	(1)2/#8 U.F.W/GROUND
*2	3 1	2.5"	5'	(3)16/#14, (3)4/#18, (4)9/#14
*3	1	2.5"	9'	(1)16/#14, (1)4/#18
*5	1	2.5"	39'	(2)16/#14, (4) 9/#14, (2)4/#18
*6	1	2.5"	70'	(2)16/#14,(3) 9/#14,(2)4/#18
*7	1	2.5"	35'	(2)16/#14,(1) 9/#14,(2)4/#18
*8	1	2.5"	60'	(2)16/#14,(1) 9/#14,(2)4/#18
*9	1	2.5"	14'	(1)16/#14,(1) 9/#14,(1)4/#18
*10	1	2.5"	44'	(1)16/#14, (1)4/#18
*11	1	2.5"	20'	(1)16/#14, (1)4/#18
*12	1	2.5"	18'	(1)9/#14
*13	1	2.5"	3'	(1)9/#14
15	1	2.5"	241'	EMPTY 1
16	1	2.5"	15'	(1)9/#14
47	4	0.5"	0.07	CHOTY FO

		POLE SCHEDULE		
	NO.	TYPE	STATION	OFFSET
	*1	50' MAST ARM POLE W/ TYPE 3 BASE	1088+02	63′ L
	*2	60' MAST ARM POLE W/ TYPE 3 BASE	1088+91	40′ R
2	*3	40' MAST ARM POLE W/ TYPE 3 BASE	1088+36	42′ R
	*4	PEDESTRIAN POLE W/ TYPE 4 BASE	1088+98	63′ L
	*5	PEDESTRIAN POLE W/ TYPE 4 BASE	1089+08	52′ L
2	6	PEDESTRIAN POLE W/ TYPE 4 BASE	1088+40	49′ L

^{*} EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

		JUNCTION WELL AND	CABINET SCHEDULE
7	NO.	STATION	OFFSET
1	*J1	1088+07 © SR 2	62' L
1	*J3	1088+42 @ SR 2	64' L
1	*J4	1089+13 Ç SR 2	49′ L
2	*J5	1089+17 © SR 2	12' L
1	*J6	1088+83 € SR 2	38′ R
2	*J7	1088+22 € SR 2	38′ R
2	*CA	1087+95 @ SR 2	71′ L

^{*} EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE



17 1 2.5" 62' EMPTY 1 * EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

RECOMMENDED Ni Wahed DATE: 1/20/10

DELAWARE

APPROVED TRAFFIC ENGINEER MALL RECOMMENDED. _DATE:_ RECOMMENDED. _DATE: ADDENDUM / REVISIONS 1 REVISED SHEET - MAW 12/3/2010 SCALE DEPARTMENT OF TRANSPORTATION 2 REVISED SHEET - MAW 05/4/2011 5 REV ISED SHEET - MAW 01/13/2012

ELKTON ROAD, CASHO MILL ROAD TO **DELAWARE AVENUE**

PERMIT NO. N 639 24-044-01 DESIGNED BY: JDS COUNTY CHECKED BY: MAW NEW CASTLE

SIGNALIZATION PLAN ELKTON RD @ CASHO MILL RD

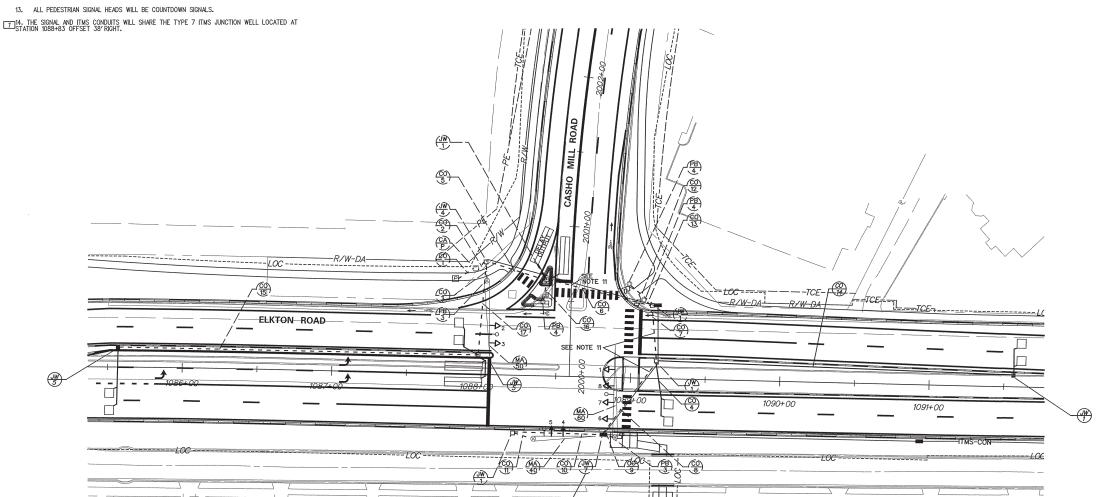
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ADDITIONAL GENERAL SIGNAL NOTES

8. THE LOAD BEARING JUNCTION WELL IS A SPECIAL PROVISION JUNCTION WELL AND WILL BE FABRICATED BASED ON THE DETAIL AND SPECIAL PROVISION SPECIFICATION. THE JUNCTION WELL WILL BE UNDER TRAFFIC DURING CONSTRUCTION. AT THE END OF ROAD CONSTRUCTION THIS LOCATION WILL BE PART OF THE CURB MEDIAN.

9, ALL MAGNETIC DETECTION SYSTEMS SHALL BE REMOVED PRIOR TO INSTALLATION OF PAVEMENT LOOPS.

- 10. ALL LOOP DETECTORS SHALL BE INSTALLED AFTER THE APPLICATION OF TYPE C PAVING.
- 11. THE ITMS CONDUITS WILL BE INSTALLED DURING THE INSTALLATION OF SIGNAL CONDUIT RUN NUMBERS 6,7, AND 8.
- 12. THE SIGNAL JUNCTION WELL JW12 STA. 1089+14 OFFSET 11' LEFT WILL BE SHARED BY ITMS CONDUIT.



			CONDU	IIT RUN SCHEDULE
CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/ WIRE
*1	1	2"	11'	(1)2/#8 U.F.W/GROUND
*2	3 1	2. 5"	5′	(3)16/#14, (10)4/#18, (4)9/#14
*3	1	2. 5"	9'	(1)16/#14, (1)4/#18
4	1	1.5"	20'	(1)4/#18
*5	1	2.5"	39'	(2)16/#14, (4)9/#14, (6)4/#18
*6	1	2. 5"	70'	(2)16/#14, (3)9/#14, (4)4/#18
*7	1	2.5"	35′	(2)16/#14,(1)9/#14,(4)4/#18
*8	1	2. 5"	60'	(2)16/#14, (1)9/#14, (2)4/#18
*9	1	2. 5"	19'	(1)16/#14, (1)9/#14, (1)4/#18
*10	1	2. 5"	77'	(1)16/#14, (1)4/#18
*11	1	2. 5"	4'	(1)16/#14, (1)4/#18
*12	1	2. 5"	24'	(1)9/#14
*13	1	2. 5"	3'	(1)9/#14
14	1	2. 5"	240'	(1)4/#18
*15	1	2. 5"	241'	(1)4/#18
*16	1	2. 5"	15'	(1)9/#14
*17	1	2.5"	62'	(3)4/#18

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

		POLE SCHEDULE			
	NO.	TYPE	STATION	OFFSET	
	*1	50' MAST ARM POLE W/ TYPE 3 BASE	1088+02	63′ L	
	*2	60' MAST ARM POLE W/ TYPE 3 BASE	1088+91	40' R] [
2	*3	40' MAST ARM POLE W/ TYPE 3 BASE	1088+36	42' R] [2
	*4	PEDESTRIAN POLE W/ TYPE 4 BASE	1088+98	63′ L	1
	*5	PEDESTRIAN POLE W/ TYPE 4 BASE	1089+08	52′ L	1
2	*6	PEDESTRIAN POLE W/ TYPE 4 BASE	1088+40	49' L	

* EXISTING OR CONSTRUCTED DURING PREVIOUS PHASE

		JUNCTION	WELL	AND	CA	ABINET	SCHED	ULE
	NO.	ST.	AT ION				0FFSET	
_	*J1	1088+0	7 ¢ SR	2			62′ L	
	J2	1088+0	03 € SR	2			13′ L	
7	*J3	1088+4	2 @ SR	2			64' L	
	*J4	1089+1	3 € SR	2			49′ L	
2	*J5	1089+1	7 @ SR	2			12' L	
1	*J6	1088+8	3 € SR	2			38′ R	
2	*J7	1088+2	22 @ SR	2			38′ R	
	J8	1091+5	6 @ SR	2			7' L	
	J9	1085+5	7 @ SR	2			13′ L	
2	*CA	1087+9	5 @ SR	2			71' L	
_	* EXI	STING OR COL	VSTRUCT.	ED DUR	RING	PREVIO	OUS PHAS	E

ULTIMATE

PHASING NOTES

1. PHASES ASSOCIATED BY A SOUD LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SIGNAL HEAD DIAGRAM

SIGNAL PHASING



رکا			
2,3,4,5		ENID	
	LEG	END	
-	PROPOSED SIGNAL CABINET	(RM) C	REMOVE BY CONTRACTOR
9	EXISTING SIGNAL CABINET	$\frac{RM}{Q}$	REMOVE BY OTHERS
0	PROPOSED SIGNAL POLE BASE	(AB)	ABANDON
8	EXISTING SIGNAL POLE BASE	PB)	
•	PROPOSED PEDESTRIAN POLE BASE	X	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
•	EXISTING PEDESTRIAN POLE BASE	(PB) X	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
W .	PROPOSED WOOD POLE	$\frac{\sqrt{W}}{X}$	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
Ø	EXISTING UTILITY POLE	Œ.	EXISTING JUNCTION WELL IDENTIFIER
	PROPOSED JUNCTION WELL	(X)	(TYPE OF JUNCTION WELL)
J.W.	EXISTING JUNCTION WELL	ॐ	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
-	PROPOSED SIGNAL HEAD	<u>©</u>	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
\rightarrow	EXISTING SIGNAL HEAD	ØH ☀	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
	PROPOSED PEDESTRIAN SIGNAL HEAD	_	
_5	EXISTING PEDESTRIAN SIGNAL HEAD	(Off *	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
	PROPOSED PEDESTRIAN PUSHBUTTON	(MA) XX	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
——D	EXISTING PEDESTRIAN PUSHBUTTON	(MA) XX	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
	PROPOSED VIDEO DETECTION	<u>Ç</u> A	PROPOSED CABINET IDENTIFIER
■	EXISTING VIDEO DETECTION		
	PROPOSED MICROWAVE DETECTION	(CA) X	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
-4	EXISTING MICROWAVE DETECTION		PROPOSED SPAN WIRE
4	OVERHEAD SIGNING	xx	EXISTING SPAN WIRE
	PROPOSED OPTICOM RECEIVER		
—	EXISTING OPTICOM RECEIVER		RIGHT-OF-WAY OR PROPERTY LINE
)	PROPOSED MAST ARM	*	PROPOSED SPAN INSULATOR

GENERAL SIGNAL NOTES

EXISTING SPAN INSULATOR

PUCK DETECTION SYSTEM

SERVICE PEDESTAL

- 3. ALL SIGNAL POLES WILL BE 21 FEET, EXCEPT WHERE SHOWN.

EXISTING MAST ARM

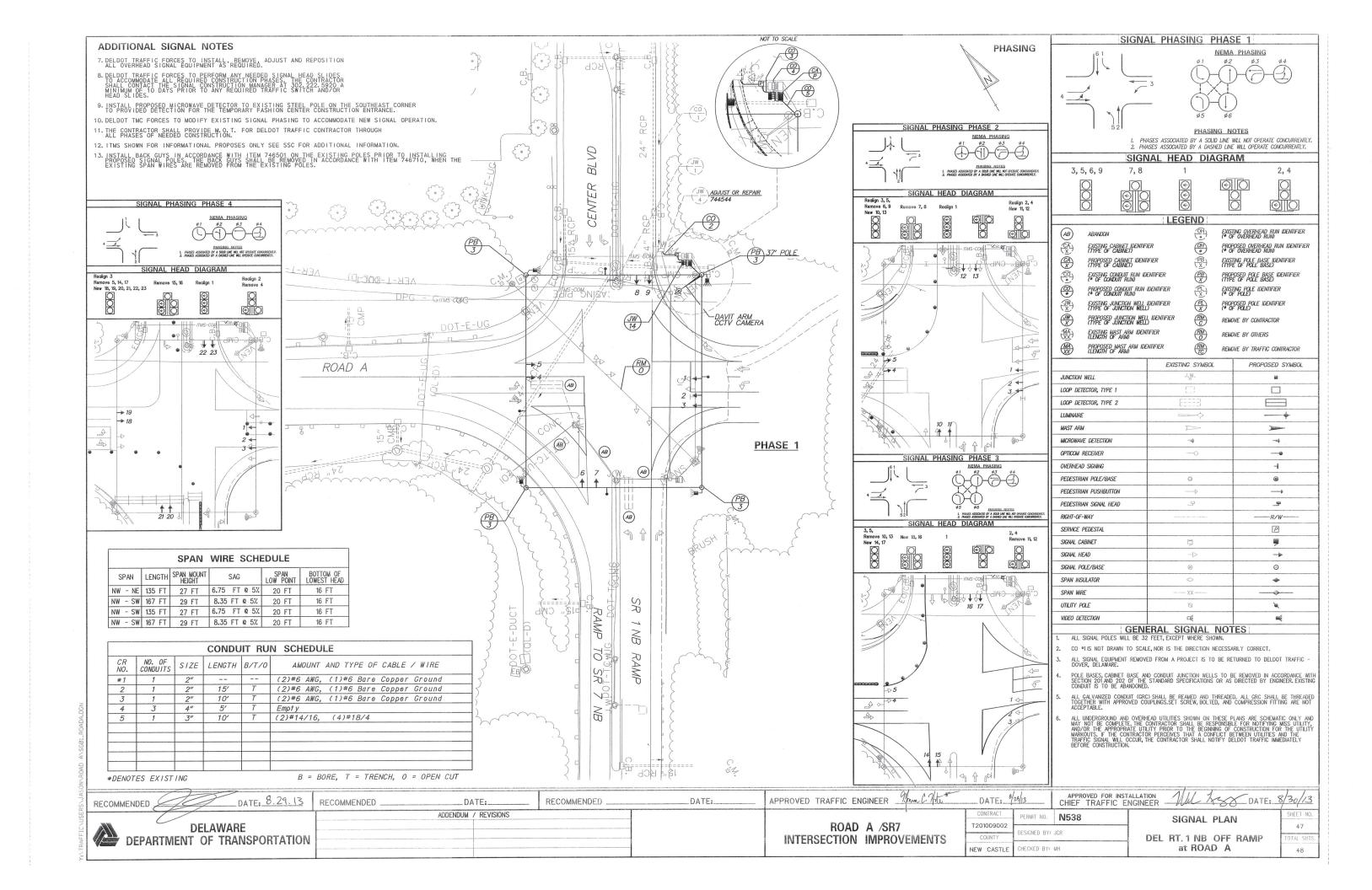
PROPOSED LUMINAIRE

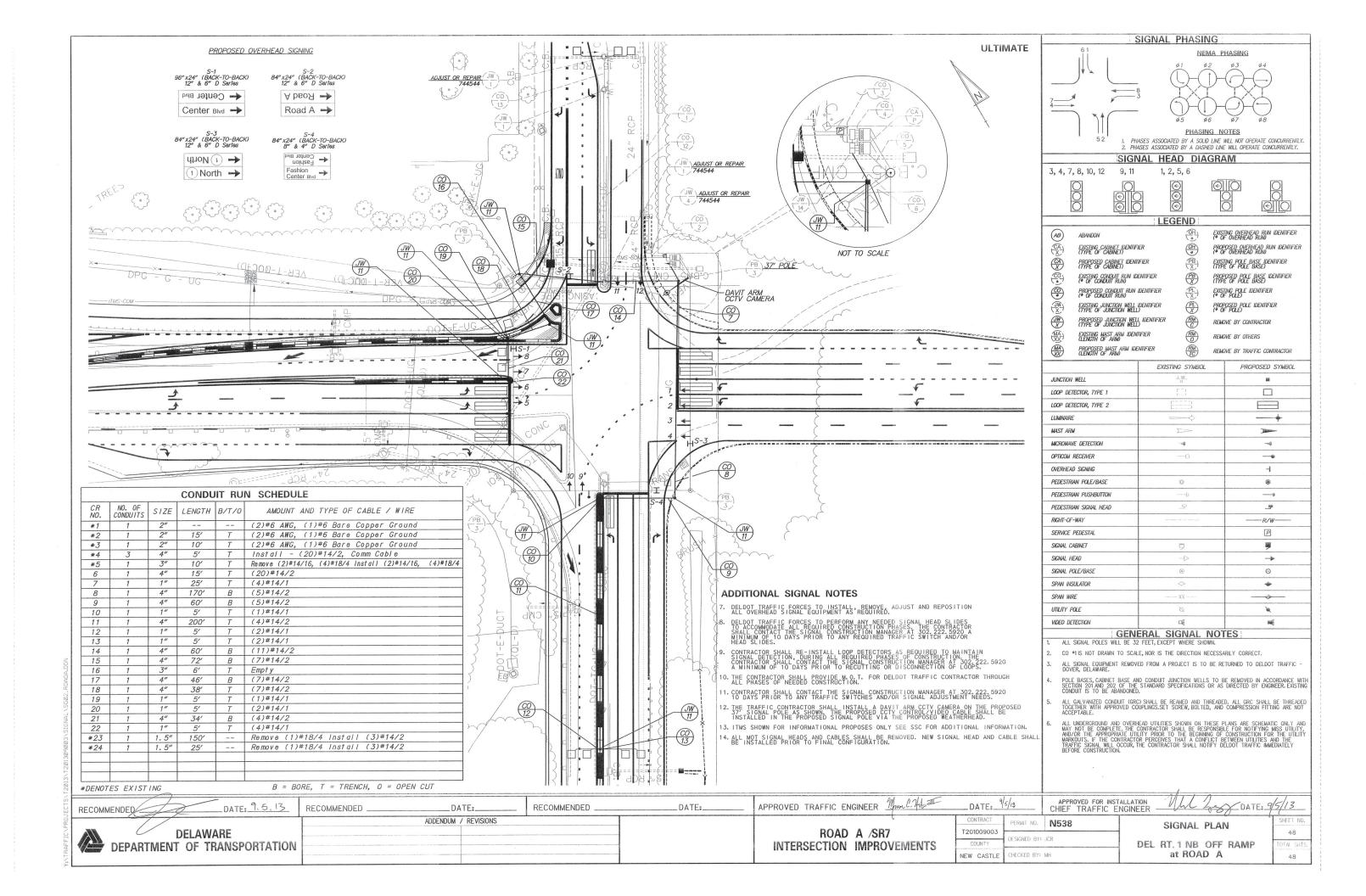
EXISTING LUMINAIRE

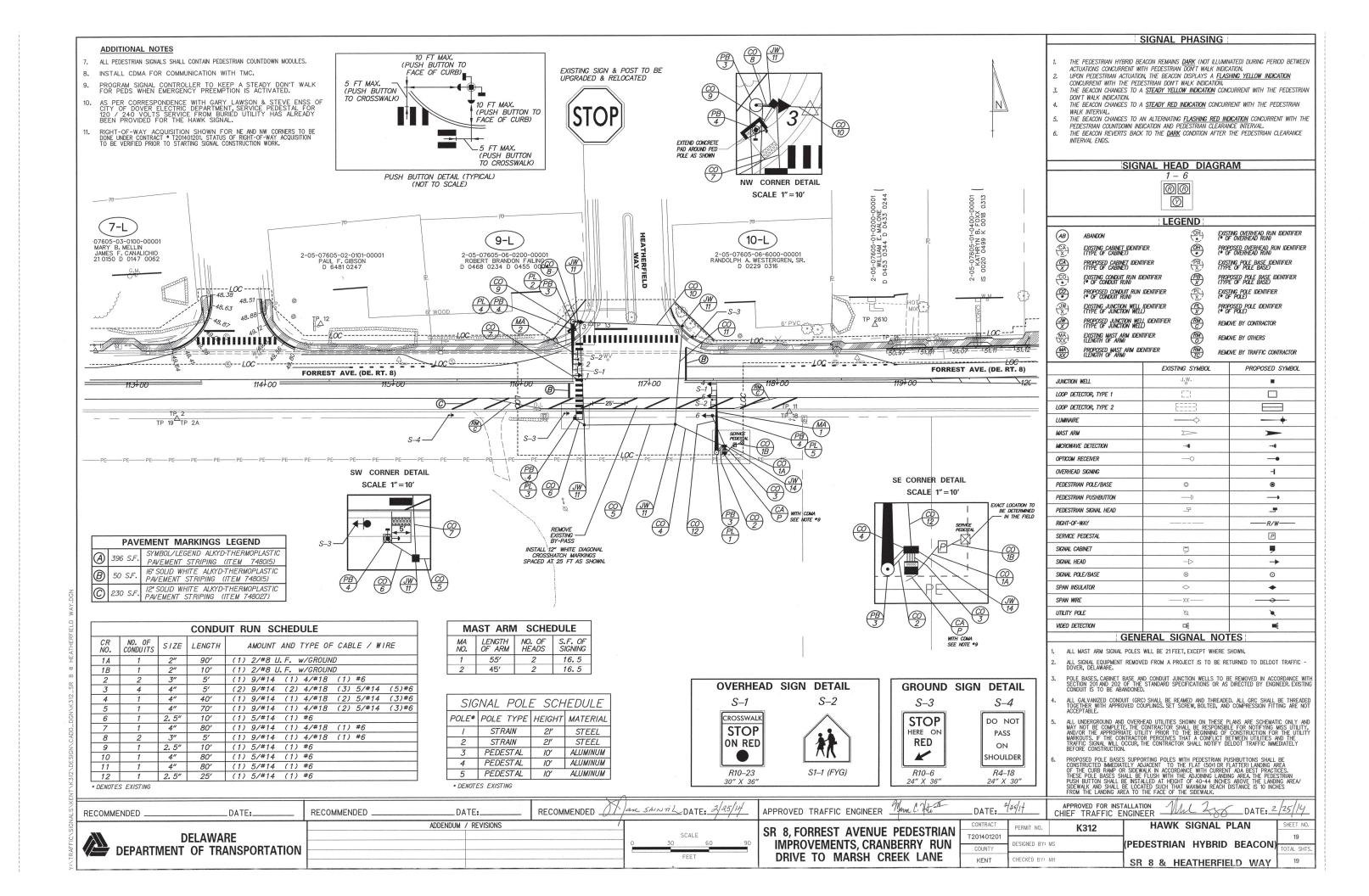
PROPOSED LOOP DETECTOR (TYPE 1 OR 2) EXISTING LOOP DETECTOR (TYPE 1 OR 2)

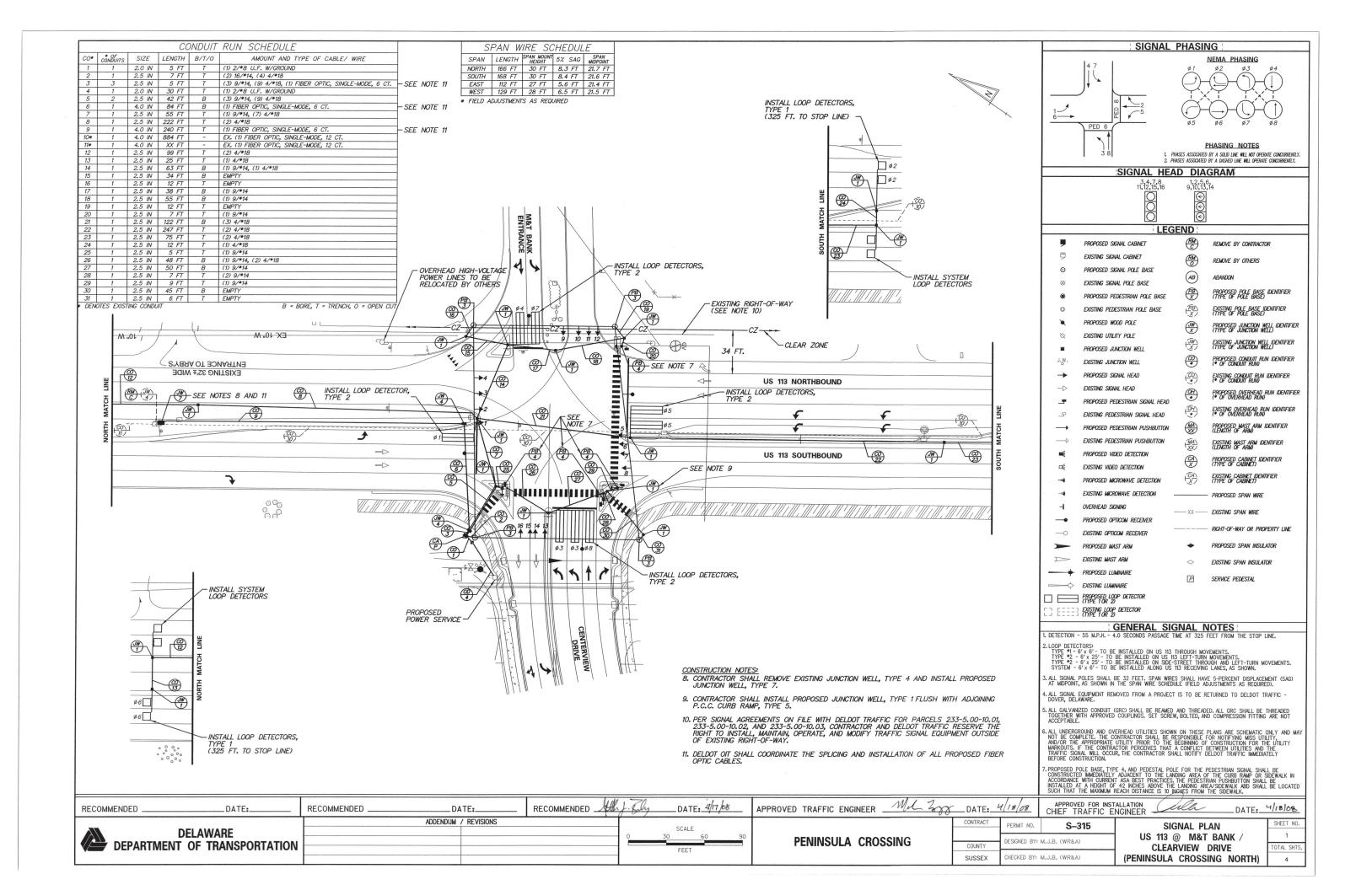
- 4. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC DOVER, DELAWARE.
- 5. POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER EXISTING CONDUIT IS TO BE ABANDONED.

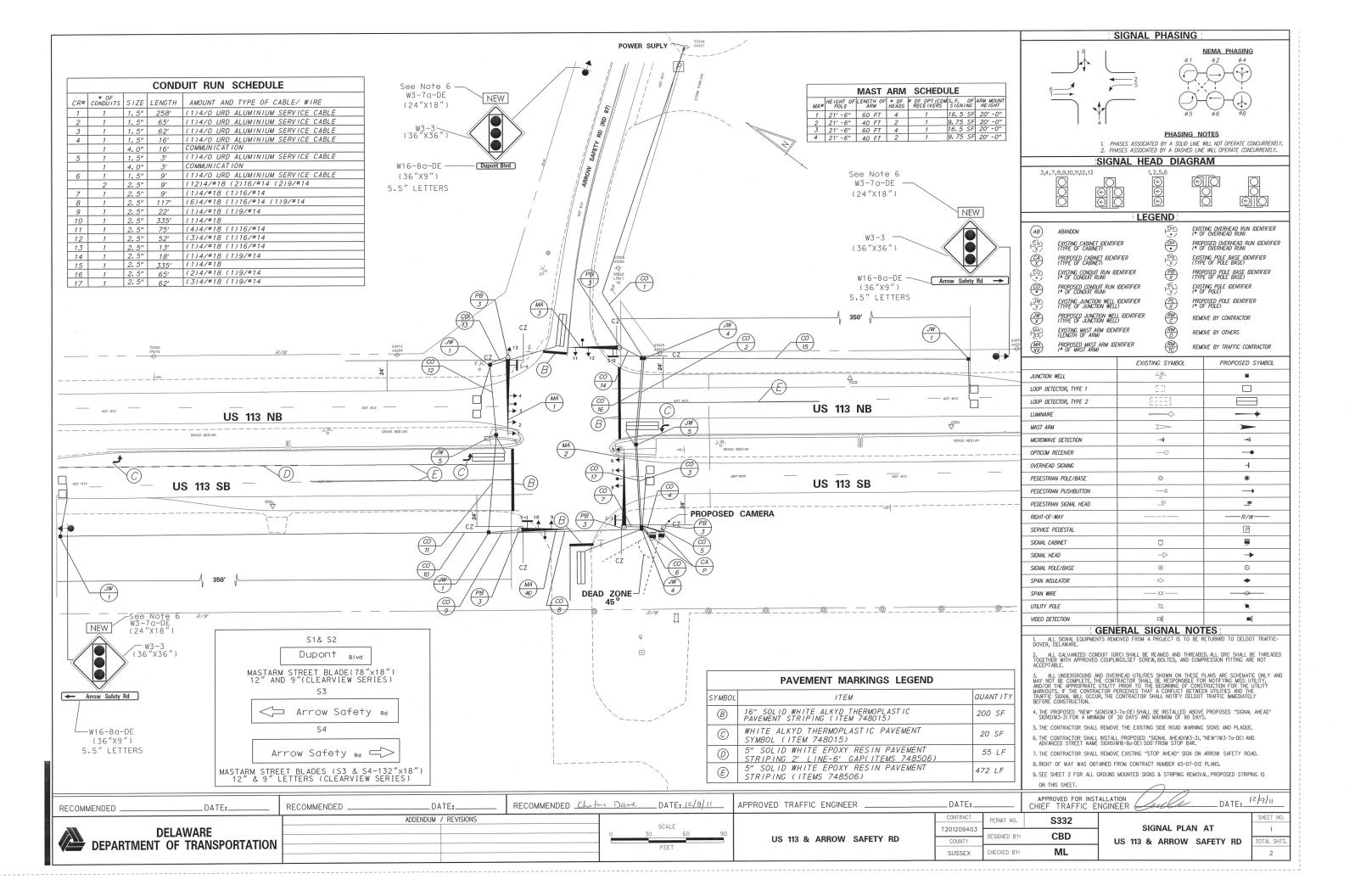
RECOMMENDED Ni Waked DATE: 1/20/10	RECOMMENDEDDATE:	RECOMMENDED	DATE:	APPROVED TRAFFIC ENGINEER W	DATE:	//7//2 CH	APPROVED FOR INST HIEF TRAFFIC E	TALLATION DATE:	1/1
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUM / REVISIONS [7] REVISED SHEET - MAW 12/3/2010 [2] REVISED SHEET - MAW 05/4/2011 [5] REVISED SHEET - MAW 01/13/2012		0 30 60 90 FEET	ELKTON ROAD, CASHO MILL ROAD TO DELAWARE AVENUE	CONTRACT 24-044-01 COUNTY NEW CASTLE	PERMIT NO. N DESIGNED BY: JDS CHECKED BY: MAW	639	SIGNALIZATION PLAN ELKTON RD @ CASHO MILL RD	SHEE 3 TOTAL

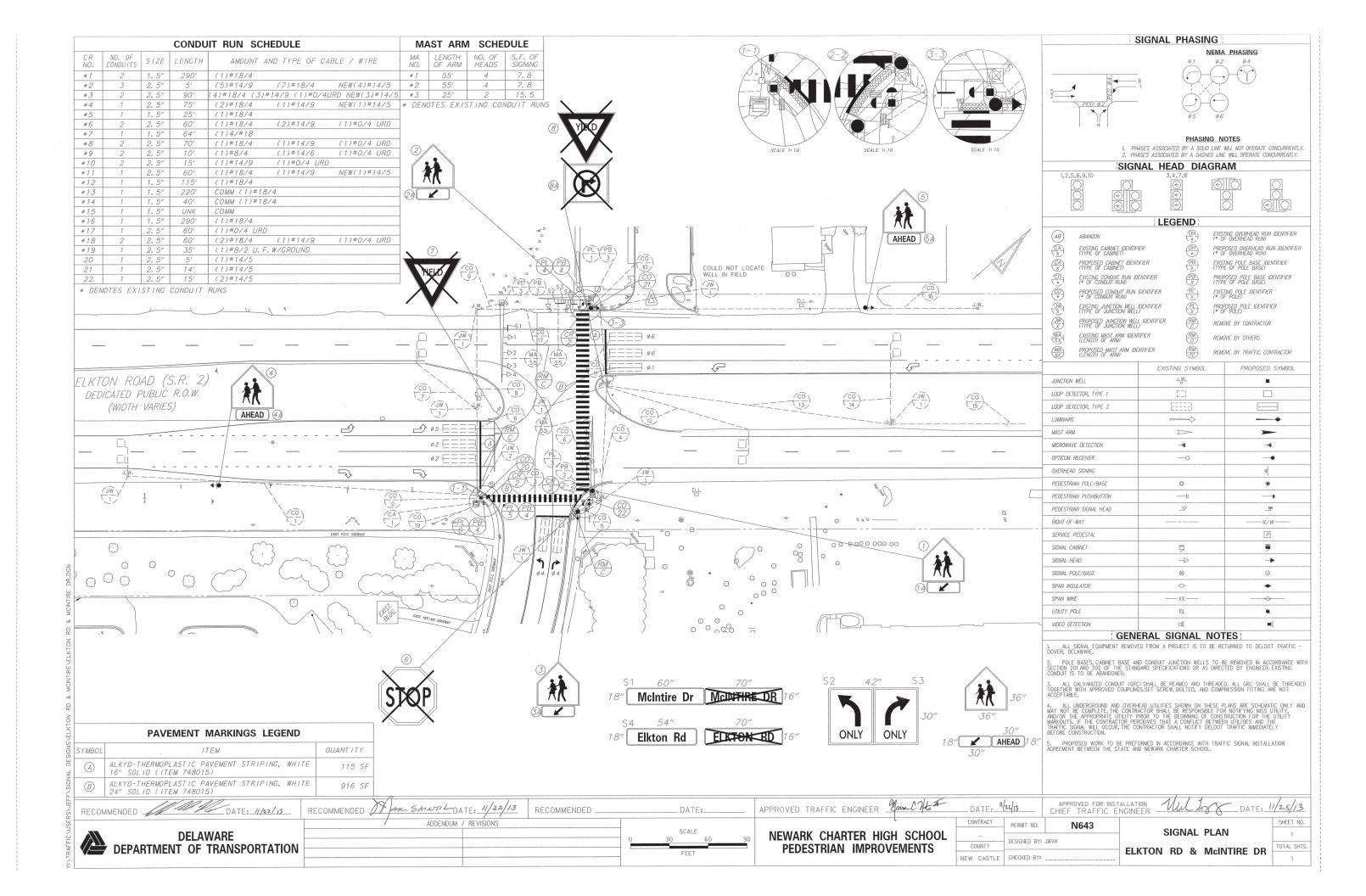


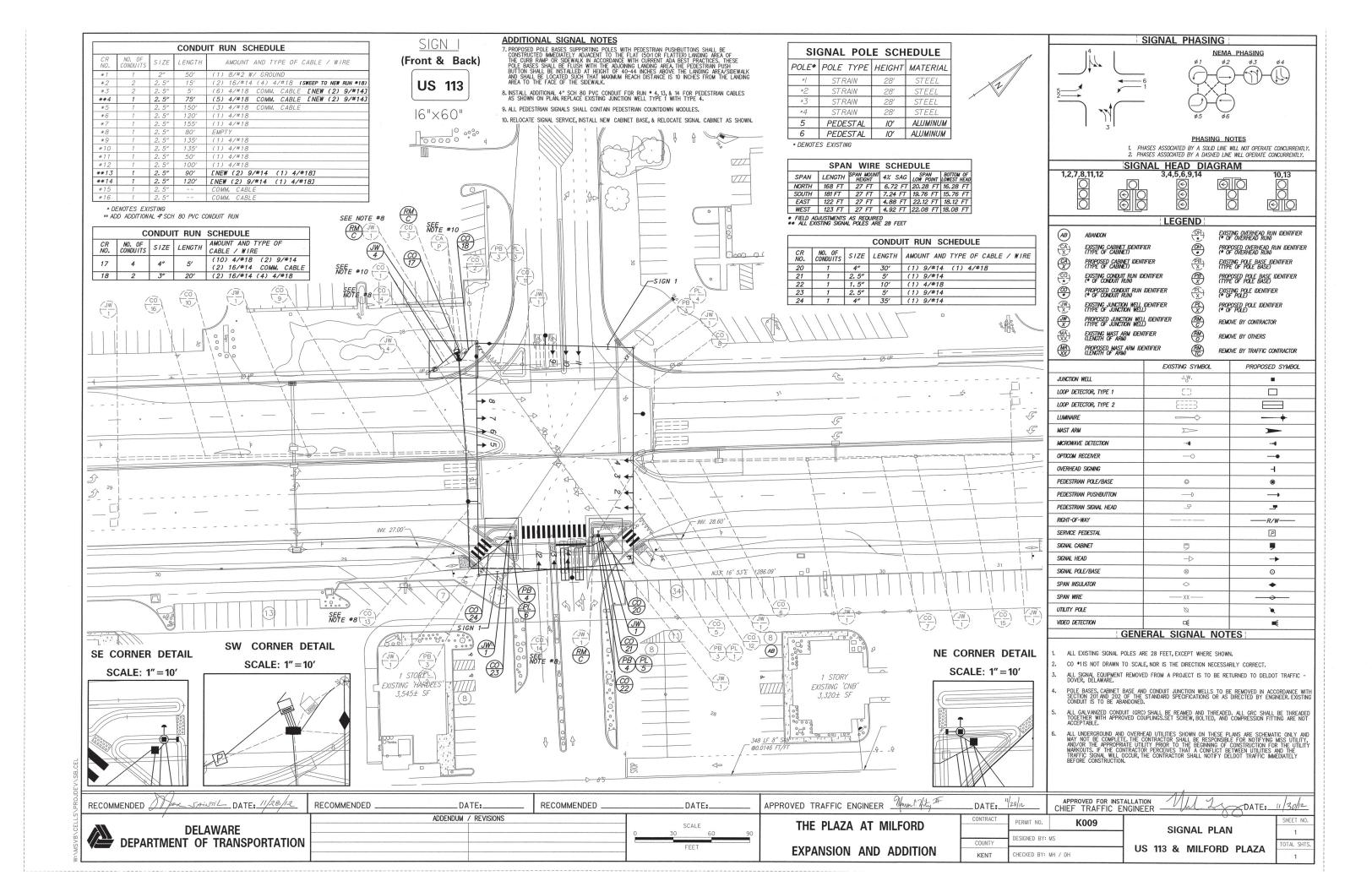


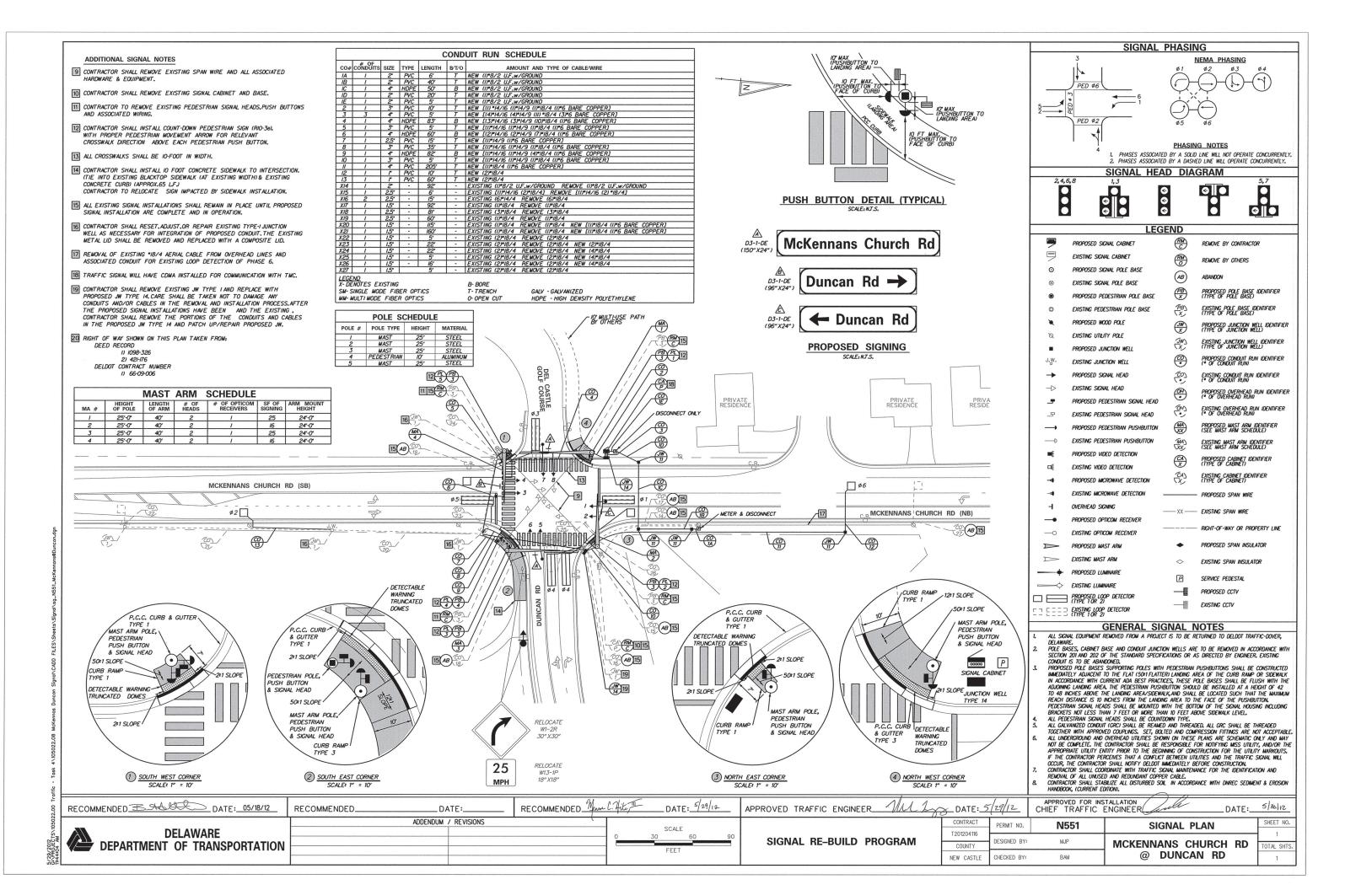


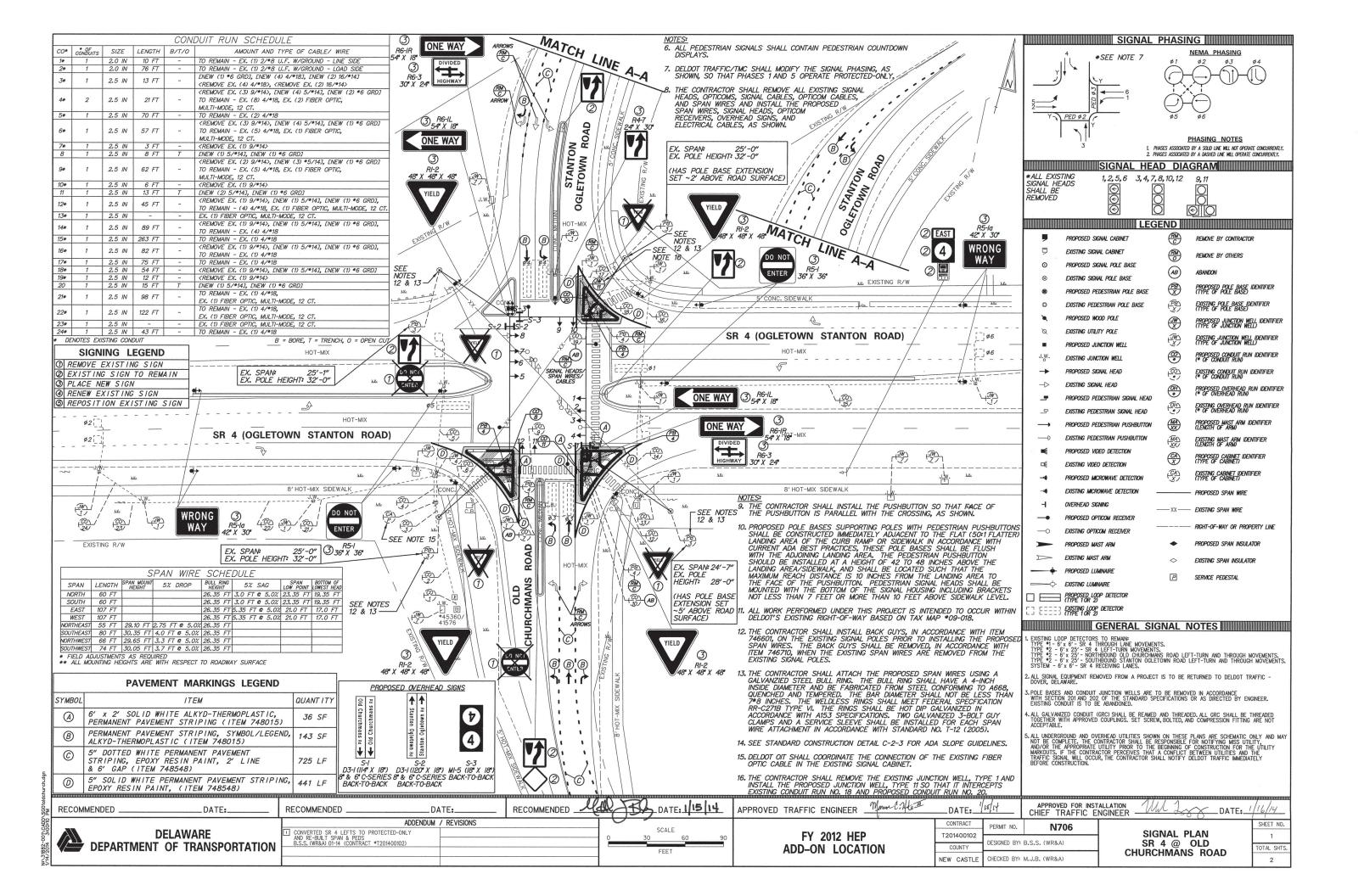




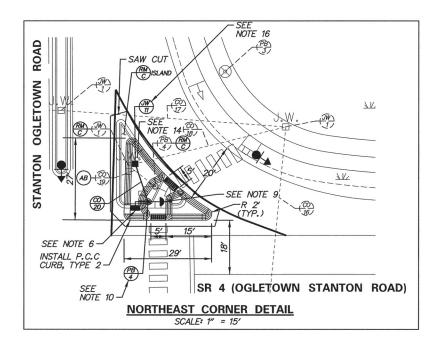


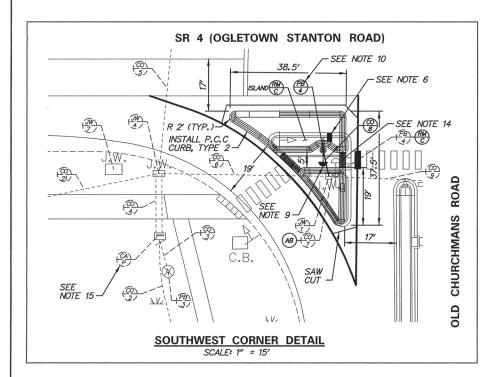


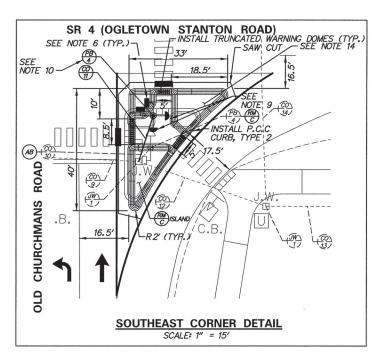




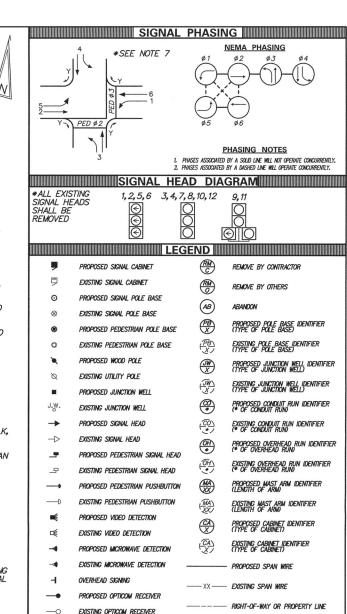
					DUIT RUN SCHEDULE
CO*	CONDUITS	SIZE	LENGTH	B/T/0	AMOUNT AND TYPE OF CABLE/ WIRE
1*	1	2.0 IN	10 FT	-	TO REMAIN - EX. (1) 2/*8 U.F. W/GROUND - LINE SIDE
2*	1	2.0 IN	76 FT	-	TO REMAIN - EX. (1) 2/#8 U.F. W/GROUND - LOAD SIDE
.3*	1	2.5 IN	13 FT	_	[NEW (1) *6 GRD], [NEW (4) 4/*18], [NEW (2) 16/*14]
J**	′	2.5 IN	13 F1	_	<pre><remove (4)="" *18="" 4="" ex.="">, <remove (2)="" *14="" 16="" ex.=""></remove></remove></pre>
					(REMOVE EX. (3) 9/*14), [NEW (4) 5/*14], [NEW (2) *6 GRD]
4*	2	2.5 IN	21 FT	-	TO REMAIN - EX. (8) 4/*18, EX. (2) FIBER OPTIC,
					MULTI-MODE, 12 CT.
5*	1	2.5 IN	70 FT	-	TO REMAIN - EX. (2) 4/#18
6*	1	2.5 IN	57 FT	-	TO REMAIN - EX. (5) 4/*18, EX. (1) FIBER OPTIC,
					MULTI-MODE, 12 CT.
7*	1	2.5 IN	3 FT	-	<remove (1)="" *14="" 9="" ex.=""></remove>
8	1	2.5 IN	8 FT	T	[NEW (1) 5/*14], [NEW (1) *6 GRD]
					<pre><remove (2)="" *14="" 9="" ex.="">, [NEW (3) *5/14], [NEW (1) *6 GRD]</remove></pre>
9*	1	2.5 IN	62 FT	-	TO REMAIN - EX. (5) 4/#18, EX. (1) FIBER OPTIC,
					MULTI-MODE, 12 CT.
10*	1	2.5 IN	6 FT	-	<pre><remove (1)="" *14="" 9="" ex.=""></remove></pre>
11	1	2.5 IN	13 FT	T	[NEW (2) 5/*14], [NEW (1) *6 GRD]
12*	1	2.5 IN	45 FT	_	<pre> ⟨REMOVE EX. (1) 9/*14⟩, [NEW (1) 5/*14], [NEW (1) *6 GRD], </pre>
12*	,	2.0 111	40 F1	-	TO REMAIN - (4) 4/*18, EX. (1) FIBER OPTIC, MULTI-MODE, 12 CT.
13*	1	2.5 IN	-	-	EX. (1) FIBER OPTIC, MULTI-MODE, 12 CT.
14*	1	2.5 IN	89 FT	_	<pre><remove #14="" (1)="" 9="" ex.="">, [NEW (1) 5/#14], [NEW (1) #6 GRD],</remove></pre>
					TO REMAIN - EX. (4) 4/*18
15*	1	2.5 IN	263 FT	-	TO REMAIN - EX. (1) 4/*18
16*	1	2.5 IN	82 FT	_	<pre> ⟨REMOVE EX. (1) 9/*14⟩, [NEW (1) 5/*14], [NEW (1) *6 GRD], </pre>
					TO REMAIN - EX. (1) 4/*18
17*	1	2.5 IN	75 FT	-	TO REMAIN - EX. (1) 4/*18
18*	1	2.5 IN	54 FT	-	<pre><remove (1)="" *14="" 9="" ex.="">, [NEW (1) 5/*14], [NEW (1) *6 GRD]</remove></pre>
19*	1	2.5 IN	12 FT	-	<pre><remove (1)="" *14="" 9="" ex.=""></remove></pre>
20	1	2.5 IN	15 FT	T	[NEW (1) 5/*14], [NEW (1) *6 GRD]
21*	1	2.5 IN	98 FT	-	TO REMAIN - EX. (1) 4/*18,
		2.0 "	55 , 1		EX. (1) FIBER OPTIC, MULTI-MODE, 12 CT.
22*	1	2.5 IN	122 FT	-	TO REMAIN - EX. (1) 4/*18,
					EX. (1) FIBER OPTIC, MULTI-MODE, 12 CT.
23*	1	2.5 IN	-	-	EX. (1) FIBER OPTIC, MULTI-MODE, 12 CT.
24*	1	2.5 IN	43 FT	-	TO REMAIN - EX. (1) 4/*18







- 6. ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
- 7. DELDOT TRAFFIC/TMC SHALL MODIFY THE SIGNAL HASING, AS SHOWN.
- 8. THE CONTRACTOR SHALL REMOVE ALL EXISTING SIGNAL HEADS, OPTICOMS, SIGNAL CABLES, OPTICOM CABLES, AND SPAN WIRES AND INSTALL THE PROPOSED SPAN WIRES, SIGNAL HEADS, OPTICOM RECEIVERS, OVERHEAD SIGNS, AND ELECTRICAL CABLES, AS SHOWN
- 9. THE CONTRACTOR SHALL INSTALL THE PUSHBUTTON SO THAT FACE OF THE PUSHBUTTON IS PARALLEL WITH THE CROSSING, AS SHOWN.
- 10. PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER)
 LANDING AREA OF THE CURB RAMP OR SIDEWALK IN
 ACCORDANCE WITH CURRENT ADA BEST PRACTICES,
 THESE POLE BASES SHALL BE FLUSH WITH THE
 ADJOINING LANDING AREA. THE PEDESTRIAN
 PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF
 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK,
 AND SHALL BE LOCATED SUCH THAT THE MAXIMUM
 REACH DISTANCE IS 10 INCHES FROM THE LANDING
 AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN
 SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM
 OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT
 LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE
 SIDEWALK LEVEL. SIDEWALK LEVEL.
- 11. ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON TAX MAP *09-018
- 12. THE CONTRACTOR SHALL INSTALL BACK GUYS, IN ACCORDANCE WITH ITEM 746601, ON THE EXISTING SIGNAL POLES PRIOR TO INSTALLING THE PROPOSED SPAN WIRES. THE BACK GUYS SHALL BE REMOVED, IN ACCORDANCE WITH ITEM 746710, WHEN THE EXISTING SPAN WIRES ARE REMOVED FROM THE EXISTING SIGNAL
- 13. THE CONTRACTOR SHALL ATTACH THE PROPOSED 3. THE CONTRACTOR SHALL ATTACH THE PROPOSED SPAN WIRES USING A GALVANZIED STEEL BULL RING, THE BULL RING SHALL HAVE A 4-INCH INSIDE DIAMETER AND BE FABRICATED FROM STEEL CONFORMING TO A668, QUENCHED AND TEMPERED. THE BAR DIAMETER SHALL NOT BE LESS THAN 7*8 INCHES. THE WELDLESS RINGS SHALL MEET FEDERAL SPECFICATION RR-C271B TYPE VI. THE RINGS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH A153 SPECIFICATIONS. TWO GALVANIZED 3-BOLT GUY CLAMPS AND A SERVICE SLEEVE SHALL BE INSTALLED FOR EACH SPAN WIRE ATTACHMENT IN ACCORDANCE WITH STANDARD NO. T-12 (2005). T-12 (2005).
- 14. SEE STANDARD CONSTRUCTION DETAIL C-2-3 FOR ADA SLOPE GUIDELINES.
- 15. DELDOT OIT SHALL COORDINATE THE CONNECTION OF THE EXISTING FIBER OPTIC CABLE IN THE EXISTING SIGNAL CABINET.
- 16. THE CONTRACTOR SHALL REMOVE THE EXISTING JUNCTION WELL, TYPE 1 AND INSTALL THE PROPOSED JUNCTION WELL, TYPE 11 SO THAT IT INTERCEPTS EXISTING CONDUIT RUN NO. 18 AND PROPOSED CONDUIT RUN NO. 20.



EXISTING LOOP DETECTOR GENERAL SIGNAL NOTES

PROPOSED MAST ARM

EXISTING MAST ARM

FXISTING LUMINAIRE

PROPOSED LOOP DETECTOR

EXISTING LOOP DETECTORS TO REMAN:
TYPE "1 - 6' x 6' - 5R 4 THROUGH LANE MOVEMENTS.
TYPE "2 - 6' x 25' - SR 4 LEFT-TURN MOVEMENTS.
TYPE "2 - 6' x 25' - NORTHBOUND OLD CHURCHMANS ROAD LEFT-TURN AND THROUGH MOVEMENTS.
TYPE "2 - 6' x 25' - SOUTHBOUND STANTON OGLETOWN ROAD LEFT-TURN AND THROUGH MOVEMENTS.
SYSTEM - 6' x 6' - SR 4 RECEVING LANE

P

PROPOSED SPAN INSULATOR

EXISTING SPAN INSULATOR

SERVICE PEDESTAL

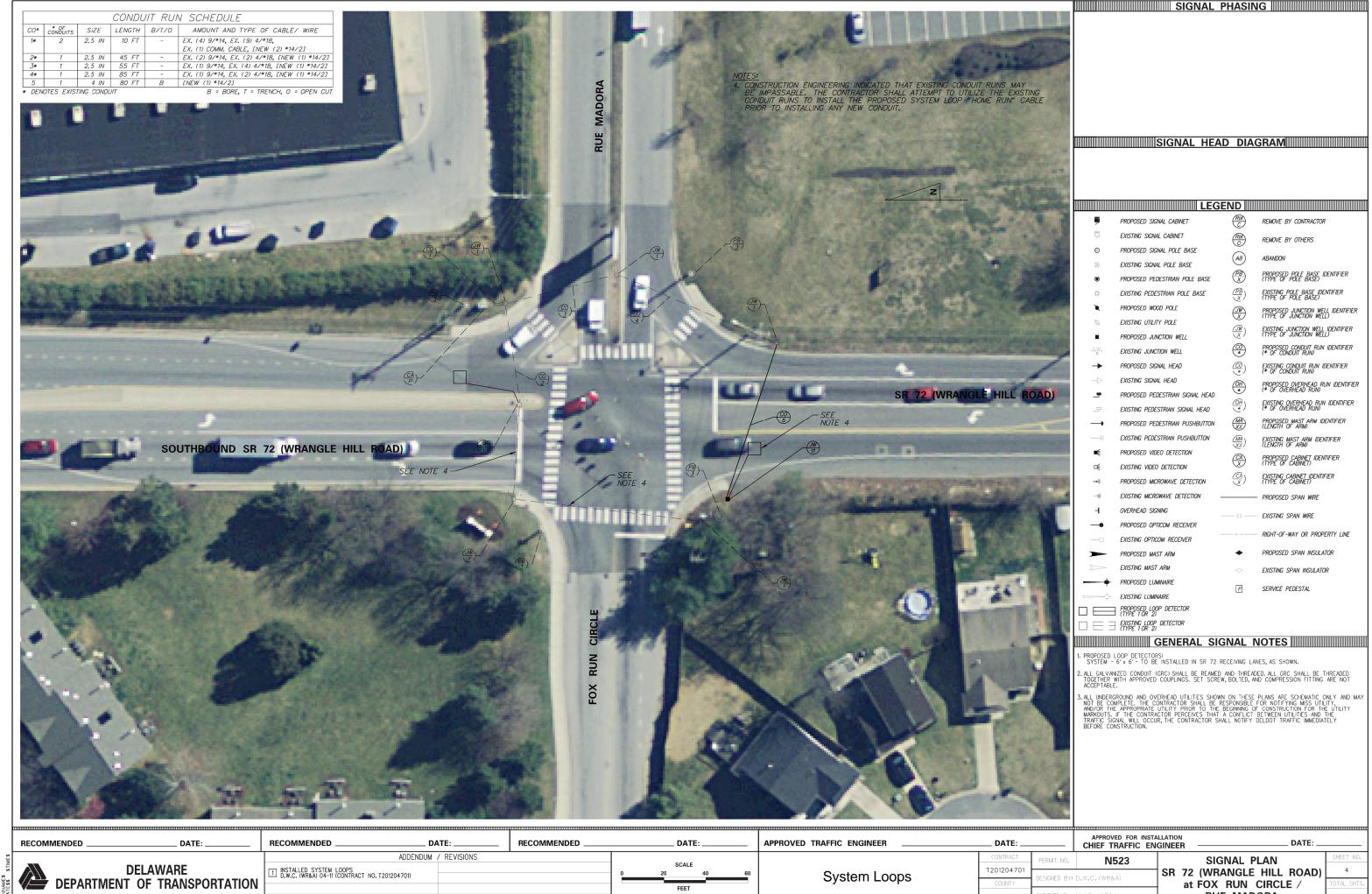
.ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.

POLE BASES AND CONDUIT JUNCTION WELLS ARE TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.

I. ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED, ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.

5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY FRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC MAMEDIATELY BEFORE CONSTRUCTION.

\SG02oldchu	RECOMMENDEDDATE:	RECOMMENDEDDATE:	RECOMMENDED LATE: 1/15/14	APPROVED TRAFFIC ENGINEER Man CHUR	DATE: 1/15/14 APPROV	VED FOR INSTALLATION TRAFFIC ENGINEER DATE: 4/6/14
1\31882-001\CADD	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUM / REVISIONS I CONVERTED SR 4 LEFTS TO PROTECTED-ONLY AND RE-BUILT SPAN & PEDS B.S.S. (WR&A) 01-14 (CONTRACT *T201400102)	0 30 SCALE 60 90 FEET	FY 2012 HEP ADD-ON LOCATION	COUNTRACT T201400102 COUNTY NEW CASTLE DERMIT NO. DESIGNED BY: B.S.S. (WR&	T706



NEW CASTLE

HECKED BY: M.J.B. (WR&A)

RUE MADORA



SIGNAL PHASING

SIGNAL HEAD DIAGRAM

LEGEND

REMOVE BY CONTRACTOR

PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)

EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)

PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)

EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)

PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)

EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)

PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)

EXISTING CABINET IDENTIFIER (TYPE OF CABINET)

RIGHT-OF-WAY OR PROPERTY LINE

PROPOSED SPAN INSULATOR EXISTING SPAN INSULATOR

PROPOSED SPAN WIRE

EXISTING SPAN WIRE

SERVICE PEDESTAL

REMOVE BY OTHERS

PROPOSED SIGNAL CABINET EXISTING SIGNAL CABINET PROPOSED SIGNAL POLE BASE EXISTING SIGNAL POLE BASE PROPOSED PEDESTRIAN POLE BASE EXISTING PEDESTRIAN POLE BASE PROPOSED WOOD POLE EXISTING UTILITY POLE PROPOSED JUNCTION WELL EXISTING JUNCTION WELL PROPOSED SIGNAL HEAD

EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL) PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN) EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN) EXISTING SIGNAL HEAD PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)

PROPOSED PEDESTRIAN SIGNAL HEAD EXISTING PEDESTRIAN SIGNAL HEAD PROPOSED PEDESTRIAN PUSHBUTTON

EXISTING PEDESTRIAN PUSHBUTTON PROPOSED VIDEO DETECTION

EXISTING VIDEO DETECTION PROPOSED MICROWAVE DETECTION EXISTING MICROWAVE DETECTION

OVERHEAD SIGNING PROPOSED OPTICOM RECEIVER

EXISTING OPTICOM RECEIVER

EXISTING MAST ARM

EXISTING LUMINAIRE PROPOSED LOOP DETECTOR (TYPE 1 OR 2)

GENERAL SIGNAL NOTES

1. PROPOSED LOOP DETECTORS: SYSTEM: 6'X6' - TO BE INSTALLED IN SR 141 RECEIVING LANES, AS SHOWN.

3.ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS AS SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

4.REMOVE EXISTING TYPE 1 JUNCTION WELL, AND INSTALL NEW TYPE 14 JUNCTION WELL IN SAME LOCATION.

APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER RECOMMENDED N - 303

DELAWARE DEPARTMENT OF TRANSPORTATION INSTALLED SYSTEM LOOPS SM (RK&K) 09-11 (CONTRACT T201204701) T201204701 GNED BY: SM (RK&K) HECKED BY: JCR (RK&K)

TRAFFIC SIGNAL PLAN SR 141 (BASIN RD) at COMMONS BLVD